Type 0ALE

Electric vehicle auxiliary fuses

0ALE Series | RoHS Compliant

Description

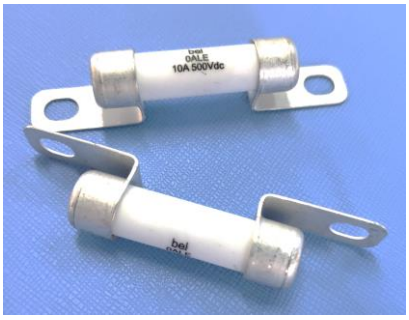
The 0ALEX fuse is designed for protection of high-voltage accessory circuits in Electric Vehicle and Hybrid Electric Vehicles and Energy Storage System

Features

- 500Vdc ideal for EV or HEV or ESS application
- Excellent DC performance
- Stud-mount, optional for other installation
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Design to EV fuse standard UL248-20
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

Applications

Provide individual protection for components or internal circuits.



Physical Specifications

Materials	Body : Ceramic
	Cap : Tin Plated Copper Caps
	Terminals : Tin Plated Copper (For stud Mount type)
Marking	On Fuse :
	"bel"
	"0ALE", "Current Rating", "Voltage Rating"
	On Label :
	"bel","0ALEX", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " ","e" " (China RoHS compliant).

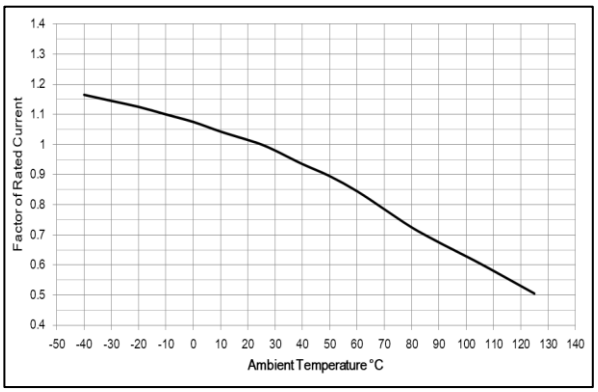
Ratings

Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
10A - 50A / 500V DC	10A - 50A / 500V @ 20kA DC
*I.R.= Interrupting Rating = Short Circuit Rating (Amps)	

Temperature Rerating Curve

Operating Temperature: -40°C to +125°C,

with proper rerating factor applied



Soldering Parameter:

Wave soldering:

Solder Pot Temperature: 260℃ Max.

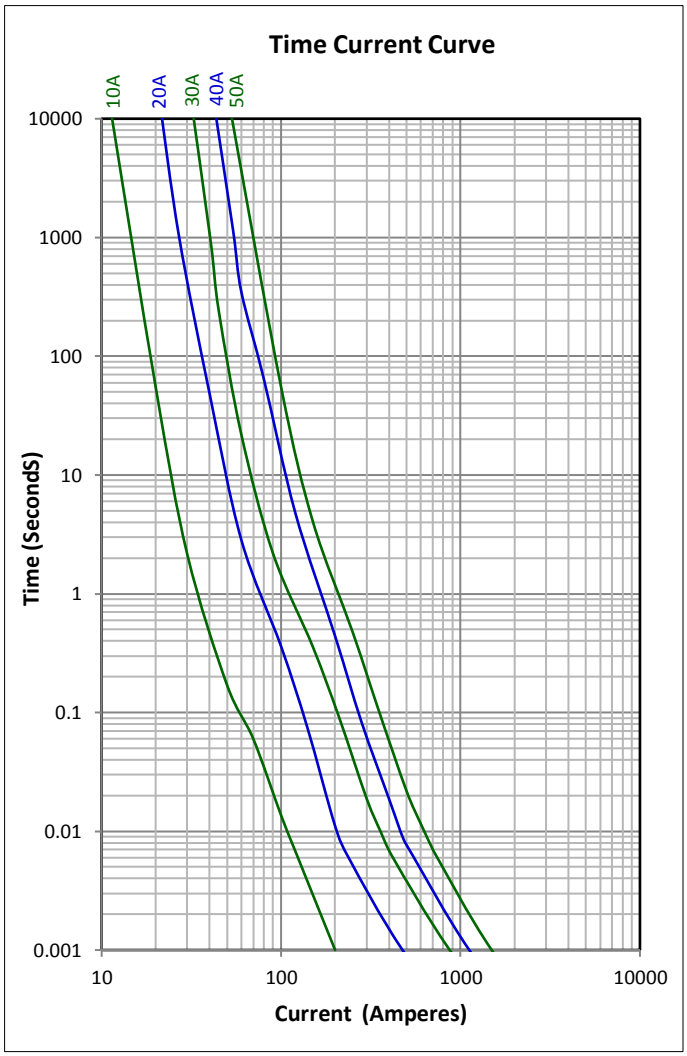
Solder Dwell Time: 10s Max.

Hand-Soldering (not recommended):

Solder Iron Temperature: 350°C± 5°C

Heating Time: 5s Max.

Average Time Current Curve



Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (mohms)	Typical Voltage Drop (mV)	Voltage and Interrupting Ratings	Typical pre-arcing I²t (A²sec)
0ALEx9100-xx	10A	13.5	185	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	130
0ALEx9200-xx	20A	5.1	145		435
0ALEx9300-xx	30A	3.1	150		1650
0ALEx9400-xx	40A	2.2	150		2850
0ALEx9500-xx	50A	1.65	165		5250

Consult manufacturer for other ratings

Temperature Rise <=50K with 70% of rated current

Typical pre-arcing I^2t measured at 10In

Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

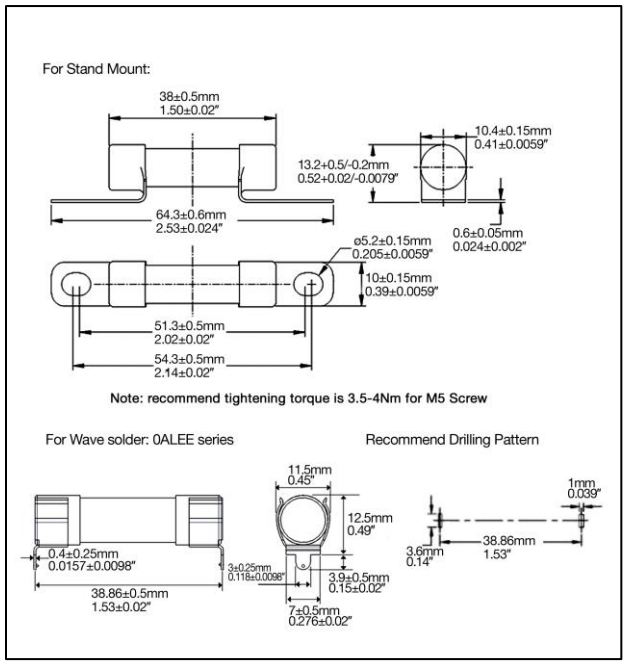
+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

Please read our datasheet & drawing disclaimer here.

Fuse FGNO Explanation
0ALE X [XXXX] - XX
0ALEB/E=0ALEB/E; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Amps	Bel FGNO[XXX]
10	9100
20	9200
30	9300
40	9400
50	9500

Mechanical Dimensions



Ordering Information

0ALE X XXXX – XX

FUSE TYPE
0ALE

Mounting Tab Style
B = For Stand Mount
E = For Wave solder(1-pin PCB mount)

AMPERE RATING
Refer to fuse FGNO explanation table

PACKAGING / QUANTITY CODE
BE (for 0ALEE, Wave solder, 1-pin PCB mount)
B = Bulk
E = 20pcs/inner box, 700pcs/carton box

PD (for Stand Mount)
P = Plastic tray pack
D = 40pcs/tray, 400pcs/carton box

Packaging

Packaging Option	Quantity	Packaging Code
Bulk (0ALEE)	20pcs / inner box, 700pcs (35 inner boxes) / carton box	BE
Plastic tray pack (for Stand Mount)	40pcs / plastic tray, 400pcs (10 plastic tray) / carton box	PD

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